



**Malaysian Paint Manufacturers' Association**  
**Persatuan Pembuat Cat Malaysia**

# Report on MPMA's Lead-Free Initiatives



# Introduction to MPMA

- Incorporated on 31<sup>st</sup> October 1966
- Non-profit organization to represent the broad interests of the paint manufacturing industry in Malaysia
- Objectives:
  - To promote and protect the interests of the manufacturers of paints\* in Malaysia.  
*\*include all paints, varnishes, enamels, lacquers, distempers and their allied products*
  - To promote and support legislation for the improvement of the standing of manufacturers of paints in Malaysia
  - To promote the collection and circulation of statistics and other information relating to the paints industry and the publication of the other literary undertakings as may seem appropriate.
  - To subscribe to or become a member of/or cooperate with any public body or institution or association where it is considered such subscription membership or cooperation is conducive to the objects for which the Association is established for ie MPMA is a subsector under the Chemical Industries Council of Malaysia (CICM) and International Paint and Printing Ink Council (IPPIC)



# Our members

## 21 Ordinary Members



## 32 Associate Members





# Key Initiatives by MPMA – Moving the industry towards eliminating lead from paint by 2020



## • In Malaysia:

- Ministry of Domestic Trade and Consumer Affairs (KPDNHEP) regulates mandatory safety standards for toys intended for children below 14 years old.
- MS ISO 8124-3 Safety of Toys Part 3 Migration of Certain Elements the maximum **acceptable migration of lead in paint shall not be more than 90 parts per million (ppm)**.
- Department of Safety and Health (DOSH) - Factories and Machinery (Lead) Regulations 1984 - Related to workplace



## Data on Lead in House hold Paint in Malaysia

Over the years, CAP has conducted on lead for Solvent Based Enamel Paints containing more than 600 ppm (parts per million)

Year	1992	Between 2004 to 2007	2016
% of samples	78% > 600ppm Highest amount 11,700 ppm	50% > 600ppm 31% > 10,000ppm	41% > 600 ppm

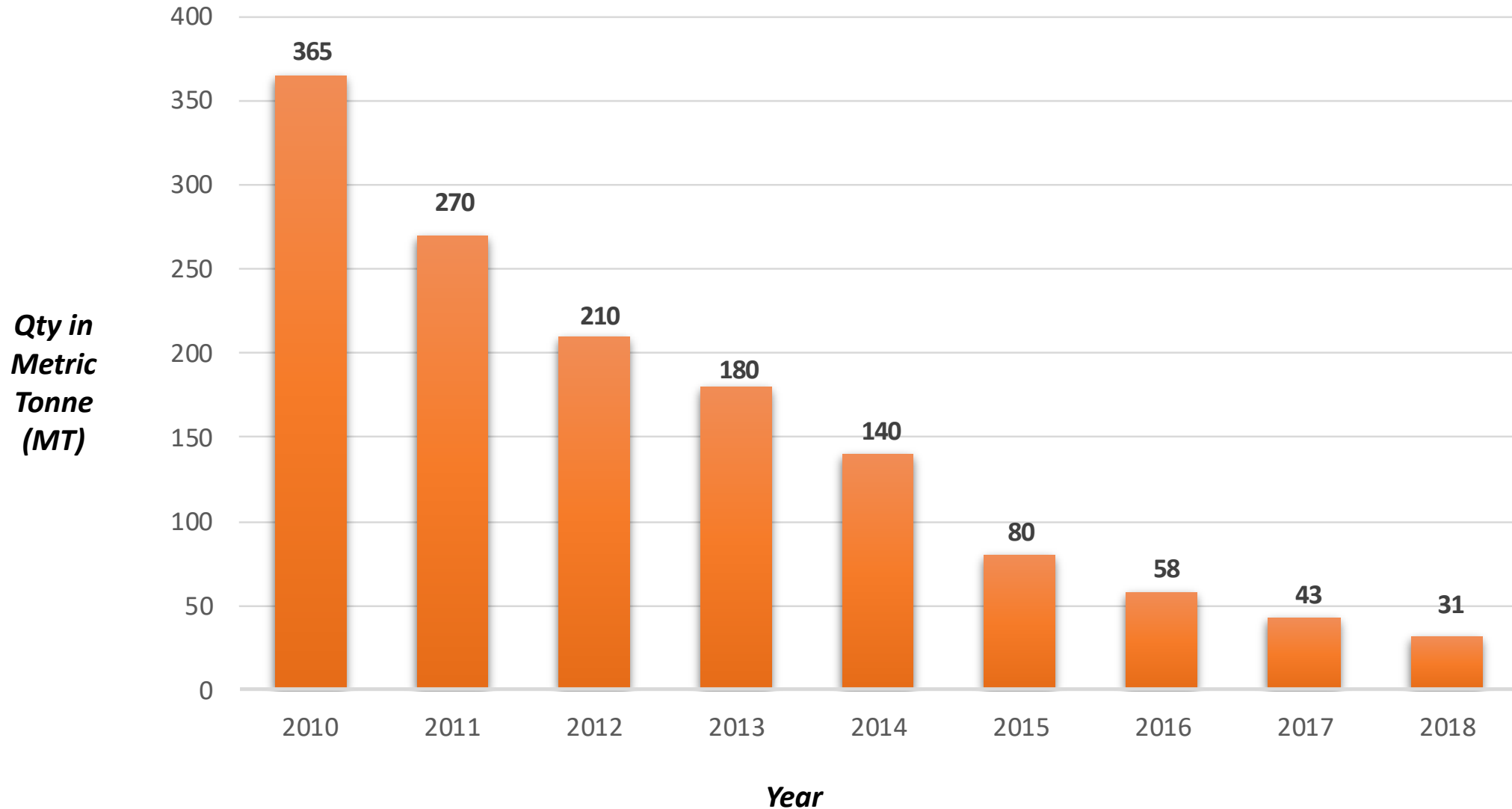


Study Published in March 2016

Sample size	39 cans from 18 Brand Types manufactured by 17 Manufacturers
> 600 ppm	16 samples contain lead > 600 ppm - 41%
Dangerously High Levels	12 samples contain lead > 10,00 ppm - 31%
Highest Level	150,000 ppm
Lowest Level	< 60 ppm
Brands results	11 out of 18 brands tested (61% of brands) had at least 1 sample > 10,000 ppm



# Malaysia Importation on Lead and Chrome



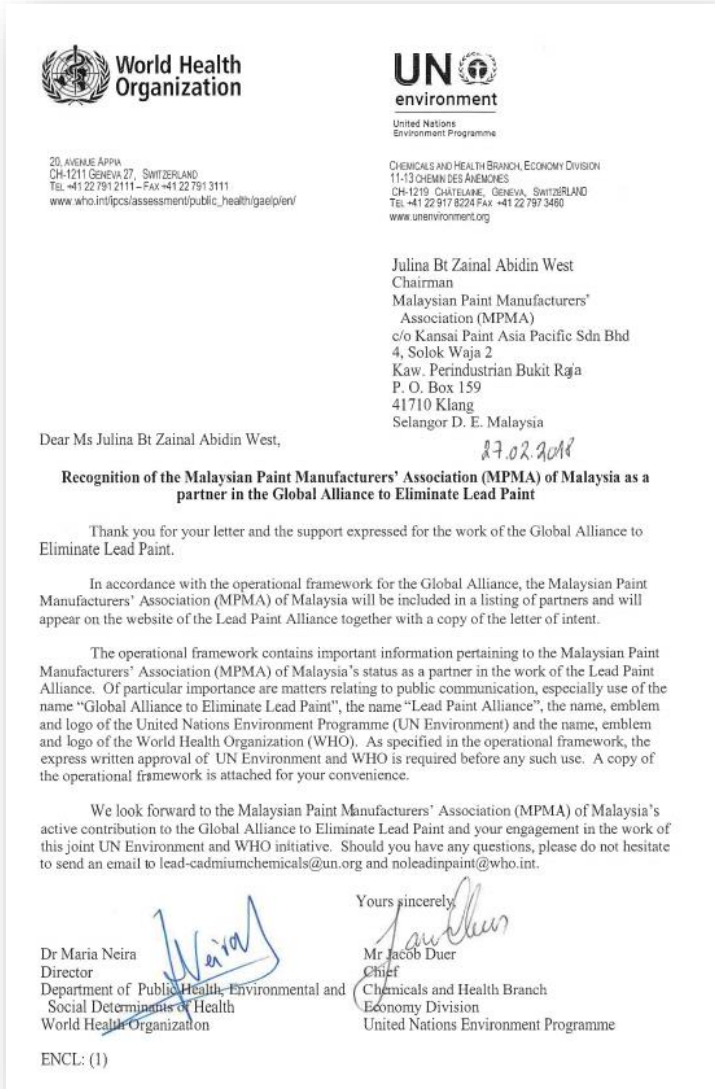
Source: Raw material suppliers



# MPMA's Resolution on LEAD

MPMA has jointly agreed to commit voluntarily to have all the members to remove lead in **DECORATIVE paints by year 2018** while enhancing it's effort in the replacement of lead in other types of paints with the intention of finally **eliminating the use of lead in paints by 2020** to meet the International efforts.

1. For general usages such as **interior / exterior decorative paints**, especially in the area of public sector, the use of **leaded paints shall be eliminated**.
2. MPMA members will be committed and shall **voluntary** take the necessary efforts in terms of **R&D, manufacturing and distribution** and to complete its efforts in **eliminating lead by 2020 in all other sectors** .
3. For **non-member companies**, MPMA shall inform them wherever possible, and make **utmost efforts** to encourage and enhance their understanding for the elimination of lead in paints by 2020
4. In special usage, where the **usage of lead is inevitable** , the application of these paints must be **strictly controlled and under supervision**.



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www.who.int/ipcs/assessment/public\_health/gaep/lev/

CHEMICALS AND HEALTH BRANCH, ECONOMY DIVISION  
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Julina Bt Zainal Abidin West  
Chairman  
Malaysian Paint Manufacturers'  
Association (MPMA)  
c/o Kansai Paint Asia Pacific Sdn Bhd  
4, Solok Waja 2,  
Kaw. Perindustrian Bukit Raja  
P. O. Box 159  
41710 Klang  
Selangor D. E. Malaysia

Dear Ms Julina Bt Zainal Abidin West,

*27.02.2018*

**Recognition of the Malaysian Paint Manufacturers' Association (MPMA) of Malaysia as a partner in the Global Alliance to Eliminate Lead Paint**

Thank you for your letter and the support expressed for the work of the Global Alliance to Eliminate Lead Paint.

In accordance with the operational framework for the Global Alliance, the Malaysian Paint Manufacturers' Association (MPMA) of Malaysia will be included in a listing of partners and will appear on the website of the Lead Paint Alliance together with a copy of the letter of intent.

The operational framework contains important information pertaining to the Malaysian Paint Manufacturers' Association (MPMA) of Malaysia's status as a partner in the work of the Lead Paint Alliance. Of particular importance are matters relating to public communication, especially use of the name "Global Alliance to Eliminate Lead Paint", the name "Lead Paint Alliance", the name, emblem and logo of the United Nations Environment Programme (UN Environment) and the name, emblem and logo of the World Health Organization (WHO). As specified in the operational framework, the express written approval of UN Environment and WHO is required before any such use. A copy of the operational framework is attached for your convenience.

We look forward to the Malaysian Paint Manufacturers' Association (MPMA) of Malaysia's active contribution to the Global Alliance to Eliminate Lead Paint and your engagement in the work of this joint UN Environment and WHO initiative. Should you have any questions, please do not hesitate to send an email to lead-cadmiumchemicals@un.org and noleadpaint@who.int.

Yours sincerely,

Mr Jacob Duer  
Chief  
Chemicals and Health Branch  
Economy Division  
United Nations Environment Programme

Dr Maria Neira  
Director  
Department of Public Health, Environmental and  
Social Determinants of Health  
World Health Organization

ENCL: (1)



# Milestones- Initiatives towards eliminate Lead Paints

<Stage #1>

● April 2017

Started with:

- MPMA Lead Elimination Resolution ( 31<sup>st</sup> March )
- Tabled out at AGM
- Met up with Government agencies

March 2017



Stage 1

● Sept 2017

Roundtable discussion

- Members
- Non-members

<Stage #2>

2018 – Eliminate Lead in Decorative Paints

Stage 2

Nov 2017

● Organise GreenForum  
“Towards Lead Free Paint  
– The Malaysian Context

<Stage #3>

2020

- Eliminate Lead paints in Malaysia



# Roundtable discussion on Sept 2017

- A round-table discussion was set up to invite both members and also non-paint members of MPMA with the following objectives:
  - To brief everyone on MPMA's resolution towards eliminating lead from paint by 2020
  - To provide brief outline of the background of this initiative
  - To discuss on any issues or concerns on achieving the key milestone and timeline of the initiative





# Forum on Towards Lead Free Paint – The Malaysian Context on Nov 2017



Malaysian Paint Manufacturers' Association  
Persatuan Pembuat Cat Malaysia

21 November 2017 | 9:00AM - 5:00PM  
Holiday Villa Subang

GREEN FORUM

## Towards Lead-Free Paint

- The Malaysian Context

MPMA Members  
RM50  
Non-Members  
RM250



### Paper Presentation

- ✓ Impact of Lead on Health & Wellness at the Workplace by *DOSH*
- ✓ Towards Elimination of Lead - A Global Perspective by *IPEN*
- ✓ Philippines' Success in Eliminating Lead in Paint by *PAPM*
- ✓ The Use of Lead-based Ingredients in Paint: Where & Why They Are Used
- ✓ Coatings Industry: A Critical Look at Opportunities for Malaysia
- ✓ Lead & Chromate Anti-Corrosion Pigment Replacement
- ✓ Lead Drier Replacement



### Forum Discussion

#1 A Mindset Change:  
Moving Towards Lead-Free Paint

#2 Malaysia's Roadmap  
Towards Lead-Free Paint:  
Should It Be Regulated?

For more information:

<http://www.mypma.org.my>

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Jason Ho +6012 - 222 0413

- The main objective of the forum is to **raise awareness** and to **educate players** of the paint industry to move **towards this goal**.
- To provide **platform** whereby the **paint industry players** and **government bodies** are able to share their respective knowledge and experiences on the use of lead in paints and ultimately **working together** towards the elimination of lead in paints.
- The discussion will be centered on the function of lead in paints, options to eliminate lead in paints and working towards the **ultimate goal of Lead Free** Paints in Malaysia by **2020**.



Keynote Address by YB Dato' Henry Sum Agong  
Deputy Minister, Ministry of Domestic Trade,  
Co-operatives and Consumerism



Dato' Henry Sum Agong added 14 new photos.  
Yesterday at 2:50pm  
Merasmikan "Moving Malaysia Towards Lead-free Paint" Forum Anjuran Persatuan Pembuat Cat Malaysia Di Holiday Villa, Seangor.  
21 NOVEMBER 2017 (SELASA)  
See Translation



Like Comment Share

Press Conference on MPMA's initiatives



# Forum on Towards Lead Free Paint – The Malaysian Context on Nov 2017

1. Akzo Nobel Paints (Malaysia) Sdn Bhd
2. Becker Industrial Coatings (M) Sdn Bhd
3. Boustead Sissons Paints Sdn Bhd
4. Chugoku Paints (M) Sdn Bhd
5. Dolphin Paint (MFG) Sdn Bhd
6. Federal Paints Manufacturing (M) Sdn Bhd
7. Jotun Paints (Malaysia) Sdn Bhd
8. Kansai Paint Asia Pacific Sdn Bhd
9. Kansai PLC Sdn Bhd
10. KCC Paints Sdn Bhd
11. Kossan Paint (M) Sdn Bhd
12. MCI Paint Sdn Bhd
13. Nippon Paint (M) Sdn Bhd
14. Sancora Paints Industries
15. Seamaster Paint (Malaysia) Sdn Bhd
16. Sime Kansai Paint Sdn Bhd
17. Suzukacoat (M) Sdn Bhd





# Forum on Towards Lead Free Paint – The Malaysian Context on Nov 2017

Impact of Lead on Health & Wellness at the Workplace  
Lead-based Paint: Where and Why Lead-based Ingredients Are Used  
Towards Elimination of Lead: A Global Perspective  
Panel Discussion #1 - A Mindset Change: Moving Towards Lead Free Paint



Towards Lead-Free Paint: The Philippines Experience by Mr Vergel Dyoco(PAPM)  
Panel Discussion #2 - Malaysia's Roadmap Towards Lead-Free Paint: Should It Be Regulated?



Lead & Chromate Anti Corrosion Pigment Replacement  
Replacing Lead Driers is Easier Than You Think





# Forum on Towards Lead Free Paint – The Malaysian Context on Nov 2017

- Infographic about Lead and shared with the attendees

There is no safe level of lead exposure

## MALAYSIA: TOWARDS LEAD-FREE PAINT BY 2020

### Channels of Lead Exposure

- Inhalation** of particles produced by industrial or recycling processes
- Ingestion** of contaminated soil or dust from decaying paint with lead content - particularly when children play on the ground and put toys or fingers in their mouths
- Lead-containing products** such as lead-glazed ceramics and some traditional medicines or cosmetics
- Food** or water contaminated with lead

Source: World Health Organisation

There is no safe level of lead exposure

## THE TOXICITY OF LEAD

### Consistent exposure to lead is harmful with many potential consequences

- Young children** are the most vulnerable as their nervous systems are still developing, which result in them absorbing 4-6 times more lead than adults and thus increasing their risks of:
  - Intellectual disability
  - Underperforming at school
  - Behavioural issues
- In pregnant women** Lead exposure harms many organs and also affects the developing fetus
- In adults** Lead exposure increases the risk of:
  - Ischaemic heart disease
  - Stroke
- Other effects:
  - Damages the kidney
  - Damages the brain
  - Damages the liver
  - Affects reproductive system
  - Poisons the blood

Source: World Health Organisation

There is no safe level of lead exposure

## LEAD'S IMPACT ON HEALTH

### Levels of lead in blood associated with health effects

Lead Concentration (µg/dl)	Health Effects
150	Death
100	Encephalopathy, Nephropathy, Frank Anemia, Male Reproduction Effects, Haemoglobin Synthesis
50	Encephalopathy, Nephropathy, Frank Anemia, Colic, Haemoglobin Synthesis
40	Nerve Conduction Velocity
30	Vitamin D Metabolism, Elevated Blood Pressure, Erythrocyte Protoporphyrin (Men), Erythrocyte Protoporphyrin (Women)
20	Vitamin D Metabolism, Erythrocyte Protoporphyrin
10	Vitamin D Metabolism, Development toxicity, Hearing, Growth, Transplacental Transfer

NOTE: ↑ Increased function ↓ Decreased function

Source: World Health Organisation

There is no safe level of lead exposure

## LEAD: THE MALAYSIAN CONTEXT

### Data on lead in household paint in Malaysia

Over the years, the Consumers' Association of Penang (CAP) has conducted tests on lead for Solvent Based Enamel Paints containing more than 600 ppm (parts per million)

Year	Lead Level
1992	78% > 600 ppm
Between 2004 to 2007	60% > 600 ppm
2016	41% > 600 ppm

### Malaysia importation on lead and chrome pigment (HS3206.02)

Year	Quantity (Metric Tonne)
2000	365
2001	270
2002	210
2003	160
2004	140
2005	80

Source: Malaysian Paint Manufacturers' Association, Department of Statistics Malaysia

There is no safe level of lead exposure

## ADVOCACY BY MALAYSIAN PAINT MANUFACTURERS' ASSOCIATION (MPMA)

Working alongside regulatory bodies on health, safety and environment matters in relation to the paint industry

Currently, mandatory safety standards (maximum of 90 ppm) are set for paint used in toys intended for children below 14 years old. (Regulation by the Ministry of Domestic Trade, Co-operatives & Consumerism)

### Initiatives by MPMA

- 01 Joining the Global Alliance to Eliminate Lead Paint (GALILEY) movement to raise awareness amongst government authorities and the general public on impact of lead in paint.
- 02 Engage with Government and Regulatory bodies, stakeholders, MPMA members, non-members and consumers.
- 03 Champion the cause of removing lead in household paints for the decorative paint category by 2018.
- 04 To remove lead in all paint categories by 2020.

Source: World Health Organisation



# Press event reports

MPMA which represents the collective voices of the paint manufacturing industry in Malaysia spearheaded the signing of a commitment pledge by 17 industry players to remove the use of lead based ingredients in the manufacturing of paints by 2020.

	Titles
1	Nanyang Siang Pau
2	New Straits Times
3	Designer Concept
4	Home Finder
5	Property King
6	Building & Investment
7	TV9



### LEAD-FREE FUTURE

The Malaysian Paint Manufacturers' Association ("MPMA") which represents the collective voices of the paint manufacturing industry in Malaysia spearheaded the signing of a commitment pledge by 17 industry players to remove the use of lead based ingredients in the manufacturing of paints by 2020. Present to officiate the "MPMA Green Forum: Towards Lead-Free Paints – The Malaysian Context" forum was Deputy Minister YB Dato' Henry Sum Agong, Ministry of Domestic Trade, Co-operatives & Consumerism (MDTCC). The forum was attended by over 100 individuals from the industry, consumer association and the government.

[www.mypma.org.my](http://www.mypma.org.my)

Headline: Deputy Trade Minister: To Cooperate with Global Initiative within 3 Years to Legislate Lead-Free Paint

Date: 21 November 2017

Source: [Nanyang Press Online](#)

**Total Media:**  
10 Pax

**Total Publications:**  
7 Titles

## Industry leaders pledge lead-free paint by 2020

Posted on November 23, 2017 | 118 views | Topic : News & Articles, Property News



PETALING JAYA: The Malaysian Paint Manufacturers' Association (MPMA) which represents the collective voices of the paint manufacturing industry in Malaysia spearheaded the signing of a commitment pledge by 17 industry players to remove the use of lead-based ingredients in the manufacturing of paints by 2020.

According to the statement, the pledge is an initiative in line with the Global Alliance to Eliminate Lead Paint (GAELP) movement, aimed at creating a mindset change towards the implementation of lead-free paint.

Present to officiate the "MPMA (Green Forum) Towards Lead-Free Paints was The Malaysian Context' forum, Deputy Minister Ministry of Domestic Trade, Co-operatives & Consumerism (MDTCC) Datuk Henry Sum Agong.

## Heading towards a healthy living environment



The Malaysian Paint Manufacturers' Association ("MPMA") which represents the collective voices of the paint manufacturing industry in Malaysia spearheaded the signing of a commitment pledge by 17 industry players to remove the use of lead based ingredients in the manufacturing of paints by 2020. The pledge is an initiative in line with the Global Alliance to Eliminate Lead Paint (GAELP) movement, aimed at creating a mindset change towards the implementation of lead-free paint. In Malaysia, the current legislation allows a maximum of 90 ppm in the migration of lead in paint used in toys for children below 14 years old. MPMA continues to play a fundamental role as the bridge between the industry and government legislators, taking on an advocative role towards raising awareness amongst key industry players on the negative impact of lead in paint.



### 副贸消部长:配合全球倡议 3年内立法推无铅油漆

2017年11月21日



《槟城再电21日讯》国内贸易、合作社及消费者事务部副部长拿督亨利松又表示，油漆和涂料工业是贡献大马经济增长的行业之一，随着国际越来越重视环保，大马将配合全球消除含铅涂料联盟（GAELP），推动我国在2020年达成“为无铅油漆立法”的目标。



# MPMA's 2018/19 Action

- We have a dialogue session with the following government department in year 2018 and 2019



KPDNHEP

**Ministry of Domestic Trade and Consumer Affairs (KPDNHEP)**



DEPARTMENT OF OCCUPATIONAL  
SAFETY & HEALTH

**Department of Safety and Health (DOSHS)**

**~ Factories and Machinery (Lead) Regulations 1984 - Related to workplace**



**Malaysian Paint Manufacturers' Association**  
**Persatuan Pembuat Cat Malaysia**

**Thank you!**